1st & Final Bill

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. Date:

**Division:** Electrical (DASARAHALLY) Head of Account: **P -0298**

Sub- Division:

**Bill Received No** .....Dated .....Cash Book Voucher No .....dated.....

**Scheduled Docket Name of Work(as persanctionedestimate)** Providing and Replacement of Aerial Bunched Cables to theShooting building Raveendranagar to Shettyhalli circle Ward No 13.

**Contractor and Full Address:** M/s Sri Lakshminarasimha Electricals

**Work Order No** : EE/(Elec)/DZ/WO/000005/2019-20 Dated :22-01-2020

Reference to Agreement Date ..... Job No:- 013 -19-000084

Certified that the measurements were taken by me on 2/3/20. and recorded of pages 340006 to 340007 of Measurement Book No 3401/19-20 and that the work is satisfactorily executed.

Contractor

Officer in charge of work

JUNIOR ENGINEER (Ele)

Sub-division Officera Palike

Dasarahalli Zone, Bangalore

Certified that the measurements were taken by me on 2/3/20 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

ASSTT. EXECUTIVE ENGINEER (Ele)

Sub-division Officera Palike

Dasarahalli Zone, Bangalore

II Memorandum of Payment

| | | |
|---|---|---|
| 156) | Total value of work done or supplies as per account first and final Bill amount within | 300587=00 |
| 157) | Deduct amount to be held in reserve being .....percent Rs..... | IT 1% 3006=00 |
| 158) | " Balance | CGST. 2684=00 |
| 159) | Deduct payment : | SGST 2684=00 |
| kkk) | Amount of previous payment as in the Office Cash Book Voucher No ..... Dated ..... S.D.No ..... | LWC 1% 3006=00 |
| | Amount adjusted towards cash advance recovery of | EBF 0.1% 301=00 |
| III) | Payments cost store or other material supplied. Now made recovery amount creditable to this/ other work | Total deduction (-) 11681=00 |
| | Amount paid on this bill cheque/cash | Chq. amount 288906=00 |
| 160) | Balance being unpaid value of work done held in reserve | |
| 6) | Deduct cash advance made on the Office Cash Book Voucher No ..... dated ..... .....less adjustments | |
| 7) | Net amount due to or from contractor | |
| | **Unadjusted items** | |
| 8) | Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied | |

Contractors Signature

Received Rs. 300587/- (In words) .....

by cash and adjustment of payment as per memorandum.

Witnesses

1 Two lakh eighty eight thousand nine hundred and six Rupees only

2 Signature of contractor

Dated

Paid by me by cheque No. 11681/- Dated

by adjustment Rs.

Cash Rs. Dated

Superintendent

Initials of Officer making payment

Executive Engineer (Ele)

(For use in the office)

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| Sl. No | Description of Item | Unit | Previous Measurement | | Present Measurement | | | Total Upto Date | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Cost | Qty | Rate | Amount | Qty | Cost | |
| | **Name Of Work:-** Providing and Replacement of Aerial Bunched Cables to theShooting building Raveendranagar to Shettyhalli circle Ward No 13 | | | | | | | | | |
| 1 | Supplying of 1 1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy Phase Conductor is insulated with XLPE Compound insulated Messenger with specified IS-14255 1995 & confirming to GTP of GROUP-A3 X 25 + 1 X 25 + 1 X 16 SQ MM | Per Mtr | | | 596 | 130 00 | 77480 00 | 596 | 77480 00 | |
| 2 | Stringing of 1 1kv LT Arial Bunched Cable. BESCOM SR | Mtr | | | 596 | 10 00 | 5960 00 | 596 | 5960 00 | |
| 3 | Supplay and Laying of 1 1KV Class HR (Heat Resistant) PVC Insulated & UnSheathed Aluminium Wires Multistrand Single core Lead wires as per IS694 2010 PVC Wire - 25 Sqmm Al Wt 6 7 Kgs Total Wt 11 5Kgs for 100Mtrs | Per Mtr | | | 227 | 60 00 | 13620 00 | 227 | 13620 00 | |
| 4 | Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends junction boxes adhesive paste etc , and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 25mm dia 2mm thick | Per Mtr | | | 75 | 30 00 | 2250 00 | 75 | 2250 00 | |
| 5 | Labour charges for lying of 1 1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required I In existing trench/duct b)25sqmm to 75 sqmm | Per Mtr | | | 0 | 6 00 | 0 00 | 0 | 0 00 | |
| 6 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws bolts nuts and wiring complete Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947 ( Icu = Ics) THREE POLE 100Amps25kA | Nos | | | 18 | 3500 00 | 63000 00 | 18 | 63000 00 | |
| 7 | Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts bolts and washers 63Amps | Each | | | 6 | 100 00 | 600 00 | 6 | 600 00 | |
| 8 | Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3 5 C Al/Ar / Cu/Ar Cable and branch out 2 5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic Polystyrene enclosure which should be shock proof, safe, IP65(Weather Proof) rust proof dust proof water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic polyamide glands and/or grommets200mmx200mmx98mm | Nos | | | 16 | 2500 00 | 40000 00 | 16 | 40000 00 | |
| 9 | Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation provided with hinged front cover, equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc complete 16SWG | Sqcm | | | 59530 | 0 33 | 19644 90 | 59530 | 19644 90 | |
| 10 | Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring I Group A Materials g)16 sqmm | Per Mtr | | | 30 | 49 00 | 1470 00 | 30 | 1470 00 | |
| 11 | Supplying and fixing phylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc and fixing on exisiting wood or metal box using N F screws | Sqcm | | | 14750 | 0 22 | 3245 00 | 14750 | 3245 00 | |
| 12 | Supplying and fixing angle iron frame work fabricated out of M S angle iron And M S flat with bolts washers etc and painted with 2 coats of red oxide and then two coats of approved paint a)40X40X6mm | Per Mtr | | | 25 | 190 00 | 4750 00 | 25 | 4750 00 | |
| 13 | Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections | Nos | | | 40 | 30 00 | 1200 00 | 40 | 1200 00 | |
| 14 | Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook) | Nos | | | 4 | 40 00 | 160 00 | 4 | 160 00 | |
| 15 | Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 25 sqmm Long Barrel | Nos | | | 30 | 10 00 | 300 00 | 30 | 300 00 | |
| 16 | Installation of Insulation piercing connector for main to street lightMain 16-95sqmm, Tap 1 5-10sqmm(EP95) | Nos | | | 30 | 10 00 | 300 00 | 30 | 300 00 | |
| 17 | Fixing of Universal Hook/Dead end clamp | Nos | | | 4 | 13 00 | 52 00 | 4 | 52 00 | |

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CONTRACT CERTIFICATE

(For Other Works)

No. Date:

**Division:** Electrical (DASARAHALLY) Head of Account: **P -0298**

Sub- Division:

**Bill Received No**.....Dated.....Cash Book Voucher No.....dated.....

**Scheduled Docket Name of Work(as persanctionedestimate)** Providing and Replacement of Aerial Bunched Cables to theShooting building Raveendranagar to Shettyhalli circle Ward No 13.

**Contractor and Full Address:** M/s Sri Lakshminarasimha Electricals

**Work Order No**: : EE/(Elec)/DZ/WO/000005/2019-20 Dated :22-01-2020

Reference to Agreement Date ..... Job No:- 013 -19-000084

Certified that the measurements were taken by me on 2/3/20... and recorded of pages ..... to ..... of Measurement Book No 246 ..... and that the work is satisfactorily executed.

Officer in charge of work

Certified that the measurements were taken by me on 2/3/2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

II Memorandum of Payment

156) Total value of work done or supplies as per account within

157) Deduct amount to be held in reserve being .....percent Rs.....

158) " Balance

159) Deduct payment :

kkk) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....

Amount adjusted towards cash advance recovery of

III) Payments cost store or other material supplied.

Now made recovery amount creditable to this/ other work

Amount paid on this bill cheque/cash

160) Balance being unpaid value of work done held in reserve

6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments

7) Net amount due to or from contractor

**Unadjusted items**

8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied

Contractors Signature

Received Rs.....(in words)

.....

by cash and adjustment of payment as per memorandum.

Witnesses :

**(For use in the office)**

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | 1 1 KV Pin Insulator | | | | | | |
| 19 | No 8 Strain Insulator | | | | | | |
| 20 | Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification of BESCOM 2 Pin 45x45x5mm -510mm | | | | | | |
| 21 | **Thyristor based single/ Three phase smart street light control and monitoring system** Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short lighting and any other irregularities in voltage It has some features like 1 Remote lighting management 2 Precise lighting turnoff 3 Load ballancing 4 Load power regulation 5 Status tracking It works on the basis of some of these features 1) Main Control Unit ( Mother board ) : Handles controlling data handling and other communication process 2) Communication unit GSM GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Power Unit Firing angle controllable board for driving the thyristor 4) Switching Thyristor SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware Firmware to control , handle , process the data and communicate it wirelessly 6) Metal Enclosure IP66 weather proof metal enclosure 7) Transformers Customized step down transformers for various purposes 8) Wiring and other device assembly components | | | | | | |
| | **Grand Total Rs** | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 40 | 30 00 | 1200 00 | 40 | 1200 00 |
| | | 10 | 20 00 | 200 00 | 10 | 200 00 |
| | | 35 | 90 00 | 3150 00 | 35 | 3150 00 |
| | | 2 | 31003 00 | 62006 00 | 2 | 62006 00 |
| | | | | 300587 90 | | 300587 90 |

*Certificate* 1 Certefied that the Above Work has been carreid out satisfactorily

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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